PATENT COOPERATION TREATY

8	MICHAEL GLENN SLEEN PATENT GROUP H75 EDISION WAY STEL L MENLO PARK CA 94025	NOTIFICA RODERI ENT CR EX	PCT ATION OF TRANSMITTAL OF VATIONAL PRELIMINARY AMINATION REPORT (PCT Rule 71.1)
A nnli	cant's or agent's file reference		
	V00064P	IMI	PORTANT NOTIFICATION
	national application No. International filing da	te (day/month/year)	Priority Date (day/month/year)
PC	T/US00/34819		21 DECEMBER 1999
Appli	cant		
TIV	70, INC.	480° (é.	
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2.	A copy of the report and its annexes, if any, communication to all the elected Offices.	is being transmit	ted to the International Bureau
3.	Where required by any of the elected Offices, the of the report (but not of any annexes) and will tra-	International Bure ansmit such transla	an will prepare an English translati tion to those Offices.
4.			
	REMINDER		
	The applicant must enter the national phase before translations and paying national fees) within Offices Article 39(1)/see also the reminder sent	30 months from	the priority date (or later in so
	The applicant must enter the national phase before and paying national fees) within	30 months from by the Internationa on must be furnished international pref	the priority date (or later in so I Burean with Form PCT/IB/301). ed to an elected Office, that translate iminary examination report. It is
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Name and mailing address of the IPEA/US
Commissioner of Patents and Trademarks
Box PCT
Washington, D.C. 20231
Facsimile No. (703) 305-3230

Authorized officer
VINCENT F. BOCCIO

Telephone No. (703) 305

Form PCT/IPEA/416 (July 1992)*

Sugar

PATENT COOPERATION TREATY

PCT To: MICHAEL GLENN GLENN PATENT GROUP 8475 EDISON WAY STF I. NOTIFICATION OF TRANSMITTAL OF MENLO PARK CA 94025 INTERNATIONAL PRELIMINARY EXAMINATION REPORT (PCT Rule 71.1) 0 2 APR 2007 Date of Mailing (day/month/year) Applicant's or agent's file reference IMPORTANT NOTIFICATION TIV00064P Priority Date (day/month/year) International filing date (day/month/year) International application No. 21 DECEMBER 1999 PCT/US00/84819 Applicant TIVO, INC. 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international A copy of the report and its annexes, if any, is being transmitted to the International Bureau for 2. communication to all the elected Offices. Where required by any of the elected Offices, the International Bureau will prepare an English translation

REMINDER

3.

From the

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INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices/Article 39(1)/(see also the reminder sent by the International Bureau with Form PCT/IB/301).

of the report (but not of any annexes) and will transmit such translation to those Offices.

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/US Authorized officer Commissioner of Patents and Trademarks VINCENT F. BOCCIO Box PCT Washington, D.C. 20231 Telephone No. (708) 805-Facsimile No. (703) 305-3230

Form PCT/IPEA/416 (July 1992)*

DOCKETED & By: Date:

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

FOR FURTHER ACTION

Applicant's or agent's file reference

TIV00064P

(PCT Article 36 and Rule 70)

See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)

nternational applicati	on No.	international illing date	auy monut year)	Thomas data (22)	
PCT/US00/84819		DECEMBER 2000		21 DECEMBER 1999	
nternational Patent C Please See Supplement	Classification (IPC) ntal Sheet.	or national classification a	nd IPC		
Applicant TIVO, INC.					
Examining	Authority and is	transmitted to the app	has been prepar	red by this International Preliminary to Article 36.	
		total of sheets.			
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3. This report of	ontains indicatio	ns relating to the follow	ring items:		
고(국)	Basis of the repo				
Priority					
			ntive step or industrial applicability		
rv 🗀	Lack of unity of	invention			
V X Reasoned statement under Article 3X(2) with regard to novelty, inventive step or industrial apcitations and explanations supporting such statement		ty, inventive step or industrial applicability			
vi 🗌	Certain document	s cited			
vii 🗀	Certain defects in	the international applic	ation		
vm 🗀	Certain observation	ons on the international	application		
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Date of submission	of the demand		Date of complete	ion of this report	
17 JULY 2001		20 FEBRUA	RY 2002		
Name and mailing a	ddress of the IPEA	I/US	Authorized office		
Boy PCT	er of Patents and Trade	ruarks	VINCENT I	F. BOCCIO KANIM (MINA)	
Washington, D.C. 20231			(703) 305-4700		
Facsimile No. (70		ulu 1008*		<u> </u>	

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.
PCT/US00/34819

I.	Ba	sis of t	ne report	
1	With	regard to	the elements of the international application:*	
-			rnational application as originally filed	
	님	the des	cription:	to the file of the dead
		pages .	(See Attached)	, as originally filed
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	X	the se	quence listing part of the description: (See Attached)	, as originally filed
				, filed with the demand
		pages	, filed with the letter of	
	2. Wi	interna ese elen	to the language, all the elements marked above were available or furnished to this At- tional application was filed, unless otherwise indicated under this tran- nents were available or furnished to this Authority in the following language mguage of a translation furnished for the purposes of international search (u	which is
1	L	the la	nguage of a translation furnished for the purposes of international search (a	
1	the language of publication of the international application (under Rule 48.3(b)).			
	the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/ or 55.3).			
	3. W	ith regarelimina	and to any nucleotide and/or amino acid sequence disclosed in the international try examination was carried out on the basis of the sequence listing:	l application, the international
١	Г	Conta	ined in the international application in printed form.	
1	_	7 61.4	together with the international application in computer readable form.	
1	느느		shed subsequently to this Authority in written form.	
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١		furni	shed subsequently to this Authority in computer readable form.	housed the disclosure in the
			sate ment that the subsequently furnished written sequence listing does not go national application as filed has been furnished.	
		→ been	statement that the information recorded in computer readable form is identical to furnished.	the writen sequence usung man
	4 7	The	amendments have resulted in the cancellation of:	
١	4.02	ī	NONE	
-		岩	the description, pages NONE	
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١	_	_ಟ	the drawings, sheets/fig NONE	they have been considered to
١	5.		s report has been drawn as if (some of) the amendments had not been made, since you the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**	
	ir	eplacem this re	ent sheets which have been furnished to the receiving Office in response to an invitate port as "originally filed" and are not annexed to this report since they do not co	ontain amendments (Rules 70.
	**,	nd 70.1 1ny repl	 acement sheet containing such amendments must be referred to under item 1 and 	annexed to this report.

International application No.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

PCT/US00/34819

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				ndustrial applicability;
1.	statement Novelty (N)	Claims Claims	1-16 . NONE	YES NO
	Inventive Step (IS)	Claims	5-16	YES NO

 Industrial Applicability (IA)
 Claims of Lines (Industrial Applicability (IA) (Indust

2. citations and explanations (Rule 70.7)

Claims 1-4 lack an inventive step under PCT Article 33(3) as being obvious over Llenas et al.(5,271,626).

Claims 1-4 lack an inventive step unner To I related of all the properties of the Viewership of TV advertisements comprising the Regarding claims 1-4. Llens discloses a process of enhancing the viewership of TV advertisements comprising the steps of partitioning the points of commercials(Figs. 2 a, 2 b, 3, 4 a, 4 b, 5 a, 5 b, 6, 7) with respect to programs, having a steps of partitioning the points of commercials from the properties of the properties of the product o

Llenas discloses storage of commercials(Fig. 1, 18) and teaser information(Fig. 4 b), but, fails to disclose the information in digital form.

It would have been obvious to one skilled in the art, to provide the recorded teasers and commercials in digital form which lends the information to be compression and to provide error correction coding to the information as is well known to those skilled in the art.

Claims 5, 8 and 11 lack novelty under PCT Article 33(2) as being anticipated by Logan et al.(5,892,536).

Regarding claims 5, 8 and 11, Logan discloses a process, apparatus and method of enhancing viewership of TV advertisements in a digital environment(abstract, "tailored to the preferences of an individual"), comprising the steps of providing a storage device(Figs. 1-3, "18"), recording TV and advertisements tont the storage, and selecting an advertisement and playing back the TV program and advertisement before or after TV program material(commercial periods) to the viewer.

Claims 5-7, 8-10 and 11-13 meet the criteria set out in PCT Article 33(3)-(4), because the prior art does not teach or fairly suggest the combination of enhancing viewership of TV (Continued on Supplemental Sheet.)

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US00/34819

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: Boxes I - VIII

Sheet 10

CLASSIFICATION:

The International Patent Classification (IPC) and/or the National classification are as listed below: IPC(7): HO4N 7/08, 7/084, 7/087, 5/91, 7/00, 7/10, 7/025 and US Cl.: 348/473; 386/46; 725/32, 34, 35, 36

I. BASIS OF REPORT:

This report has been drawn on the basis of the description, page(s) 1-9, as originally filed.

page(s) NONE, filed with the demand.

and additional amendments:

NONE

This report has been drawn on the basis of the claims,

page(s) NONE, as originally filed. page(s) NONE, as amended under Article 19.

page(s) NONE, as amended under Article 19 page(s) NONE, filed with the demand.

and additional amendments:

Pages 10-15, filed with the letter of 21 December 2001

This report has been drawn on the basis of the drawings, page(s) 1-9, as originally filed. page(s) NONE, filed with the demand. and additional amendments: NONE

This report has been drawn on the basis of the sequence listing part of the description: page(s) NONE, as originally filed. pages(s) NONE, filed with the demand. and additional amendments: NONE

V. 2. REASONED STATEMENTS - CITATIONS AND EXPLANATIONS (Continued):

advertisements by inserting teasers by partitioning the beginning and ending points of commercials, carefully authoring by adding teasers to entice the viewer to watch multiple commercials, wherein the teasers are associated with viewer's viewing preferences and/or personal data.

In addition, claims 7, 10 and 13-16, the prior art fails to disclose in the selecting step selects the advertizement to be displayed after the program material is played back to a viewer that is different than the advertizement data before the Tv program materials is played back to the viewer.

Furthermore, as argued Logan fails to anticipate claims 7, 10 and 13-16.

Claims 1-16 meet the criteria set out in PCT Article 33(4), becuase the invention/subject matter can be made and/or used in industry.

In reponse to arguments provided on 21 Dec. 2001.

In re pages 2-3, applicant states, "LLenas dosse not teach or disclose commmerical segment partitioning for the beginning and end points and further teaches away from using commercial segments due to using the black space between commericials and program segments.

In reponse the examiner fails to aggree. Partitioning is accomplished by detecting black spaces(abstract, etc...), known as the inserted black frames between commercials and program material, which have a previously specified duration, as is well known to those skilled in the art.

Furthermore, Llenas et al. does not teaches away in view of describing that the black spaces or frames are part of the commercial segment(col. 3, lines 7-10, the black spaces are part of the commercial segment).

In addition col. 2, lines 34-44, describe when interrupted for a commercial break a mascot or animal will appear and give a clue or hint, therefore a teaser is during a commercial.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US00/34819

Supplemental Box	any of the preceding boxes is a
oupper the space in	any or the

not sufficient) (To be used when the space in any of the preceding Continuation of: Boxes I - VIII

Sheet 11

--- NEW CITATIONS -----US 5,892,536 A (LOGAN et al.) 06 April 1999, Figs. 1-3 US 3,694,330 A (LOGAN et al.) 00 April 1999, 1985, 1-3 US 5,600,364 A (HENDRICKS et al.) 04 February 1997, Abstract US 5,271,626 A (LLENAS et al.) 21 December 1993, Fig. 4, cols. 2-8

- A process for enhancing the viewership of television advertisements in a digital video recorder (DVR) environment, comprising the steps of:
- 5 partitioning the beginning and end of each commercial break in a program segment;

wherein each partition is of a predetermined length of time; and wherein said beginning and end partitions are carefully authored to provide a teaser to entice the viewer to watch multiple commercials during the break.

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- The process of claim 1, wherein said teaser is a set of images or logos that indicate a commercial relating to a particular advertiser is present.
- 15 3. The process of claim 1, wherein said teaser is a menu or short sequence of animations designed to catch the viewer's attention and persuade him to watch the commercial break.
 - A process for enhancing the viewership of television advertisements in a digital video recorder (DVR) environment, comprising the steps of:
 partitioning the beginning and end of a television advertisement;
 wherein each partition is of a predetermined length of time; and
 wherein said beginning partition and said end partition contain the
 more important content designed to get the desired message across to the
 viewer in the predetermined length of time.

 A process for enhancing the viewership of television advertisements in a digital video recorder (DVR) environment, comprising the steps of:

providing a storage device;

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recording television program material onto said storage device;

receiving advertisements from an external source;

storing said advertisements on said storage device;

selecting an advertisement from said storage device;

playing back said television program material from said storage device to the viewer; and

wherein said playing back step displays said advertisement to the viewer before and/or after said television program material is played back to the viewer.

- The process of claim 5, wherein said selecting step selects said
 advertisement based on the viewer's viewing preferences and/or personal data.
 - 7. The process of claim 5, wherein said selecting step selects an advertisement to be displayed after said television program material is played back to the viewer that is different than the advertisement displayed before said television program material is played back to the viewer.
 - An apparatus for enhancing the viewership of television advertisements in a digital video recorder (DVR) environment, comprising:

a storage device;

a module for recording television program material onto said storage device;

a module for receiving advertisements from an external source; a module for storing said advertisements on said storage device;

a module for selecting an advertisement from said storage device;

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a module for playing back said television program material from said storage device to the viewer; and

wherein said playing back step displays said advertisement to the viewer before and/or after said television program material is played back to the viewer.

- The process of claim 8, wherein said selecting module selects said advertisement based on the viewer's viewing preferences and/or personal data.
- 10. The process of claim 8, wherein said selecting module selects an advertisement to be displayed after said television program material is played back to the viewer that is different than the advertisement displayed before said television program material is played back to the viewer.
- 11. A program storage medium readable by a computer, tangibly embodying a program of instructions executable by the computer to perform method steps for enhancing the viewership of television advertisements in a digital video recorder (DVR) environment, comprising the steps of:
 - recording television program material onto said storage device;

providing a storage device;

receiving advertisements from an external source;

storing said advertisements on said storage device;

selecting an advertisement from said storage device;

playing back said television program material from said storage device

5 to the viewer; and

wherein said playing back step displays said advertisement to the viewer before and/or after said television program material is played back to the viewer.

- 10 12. The method of claim 11, wherein said selecting step selects said advertisement based on the viewer's viewing preferences and/or personal data.
- 13. The method of claim 11, wherein said selecting step selects an advertisement to be displayed after said television program material is played back to the viewer that is different than the advertisement displayed before said television program material is played back to the viewer.
 - 14. A process for enhancing the viewership of television advertisements in a digital video recorder (DVR) environment, comprising the steps of:

determining the beginning of a commercial break in a television program material;

inserting an informational tag at the beginning of said commercial break:

25 providing a storage device;

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recording said television program material onto said storage device;

playing back said television program material from said storage device to a viewer:

wherein said playing back step recognizes said informational tag and pauses the playback of the program material;

wherein said informational tag tells said playing step the sequence of commercials in the commercial break;

wherein said playing back step displays a menu of the available commercials in said commercial break to the viewer; and

wherein said playing back step allows the viewer to select any of the commercials listed in said menu and plays the selected commercial.

- 15. The process of claim 14, wherein when the viewer is finished viewing the commercials listed in said menu or has skipped through said menu, said playing back step continues playback of the program material.
- 16. A process for enhancing the viewership of television advertisements in a digital video recorder (DVR) environment, comprising the steps of:

determining the beginning of each commercial in a commercial break in a television program material;

inserting an informational tag at the beginning of each commercial in said commercial break;

providing a storage device;

recording said television program material onto said storage device; playing back said television program material from said storage device

25 to a viewer;

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wherein said playing back step recognizes an informational tag and pauses the playback of the program material;

wherein an informational tag contains a teaser image or multi-frame video sequence associated with the following commercial;

5 wherein said playing back step displays said teaser image or multiframe video sequence to the viewer and pauses playback; and

wherein said playing back step allows the viewer to watch the entire associated commercial or to skip to the next informational tag.

10 17. The process of claim 16, wherein when the viewer has viewed or skipped to the end of the commercial break, said playing back step continues playback of the program material.